

# Comparisons of Job Characteristics

**Focus Occupation:** [Electrical and Electronics Installers and Repairers, Transportation Equipment \(49-2093\)](#)

**Associated Occupation:** [Electrical and Electronic Engineering Technicians \(17-3023\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

**Focus Occupation:** Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)  
**Associated Occupation:** Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	15.8	11.7	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	12.4	11.0	<	Expanded education and/or training may be required
Mechanical	6.8	11.6	12.6	0	Current knowledge level may be sufficient
Design	5.2	10.2	8.8	<	Expanded education and/or training may be required
Telecommunications	3.9	8.4	4.6	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 81

**Focus Occupation:** Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)  
**Associated Occupation:** Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Quality Control Analysis	5.9	8.8	8.3	0	Current skill level may be sufficient
Troubleshooting	4.5	8.8	8.8	0	Current skill level may be sufficient
Repairing	3.4	8.0	9.2	>	Skill level is likely sufficient
Equipment Maintenance	3.5	7.9	8.6	0	Current skill level may be sufficient
Equipment Selection	3.3	7.0	6.1	<	A higher skill level may be required
Technology Design	2.6	4.9	2.8	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 83			
Focus Occupation: Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093) Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	12.2	10.5	<	Some improvement in abilities may be required
Problem Sensitivity	11.1	12.0	11.0	0	Current ability level may be sufficient
Written Comprehension	11.0	12.0	8.5	<<	Extensive improvement in abilities may be required
Near Vision	11.1	11.6	11.5	0	Current ability level may be sufficient
Oral Expression	12.4	11.6	9.5	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	11.1	9.2	<	Some improvement in abilities may be required
Information Ordering	9.9	11.0	9.8	<	Some improvement in abilities may be required
Written Expression	9.8	10.7	7.3	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	9.9	10.2	0	Current ability level may be sufficient
Visualization	7.5	9.8	8.1	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	9.6	8.7	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 81
<b>Focus Occupation: Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)</b> <b>Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)</b>		
Work Activities	Exclusivity of Activity	
Calibrate or adjust electronic equipment or instruments to specification	67	
Communicate technical information	4	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electronic equipment, components, or systems	62	
Install/connect electrical equipment to power circuit	57	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	

Repair electronic components, equipment, or systems	74
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Solder electrical or electronic connections or components	55
Understand detailed electronic design specifications	70
Understand service or repair manuals	40
Understand technical information for electronic repair work	76
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use oscilloscopes in electronics repair	77

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)**

**Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)**

### Tools and Technologies

### Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.